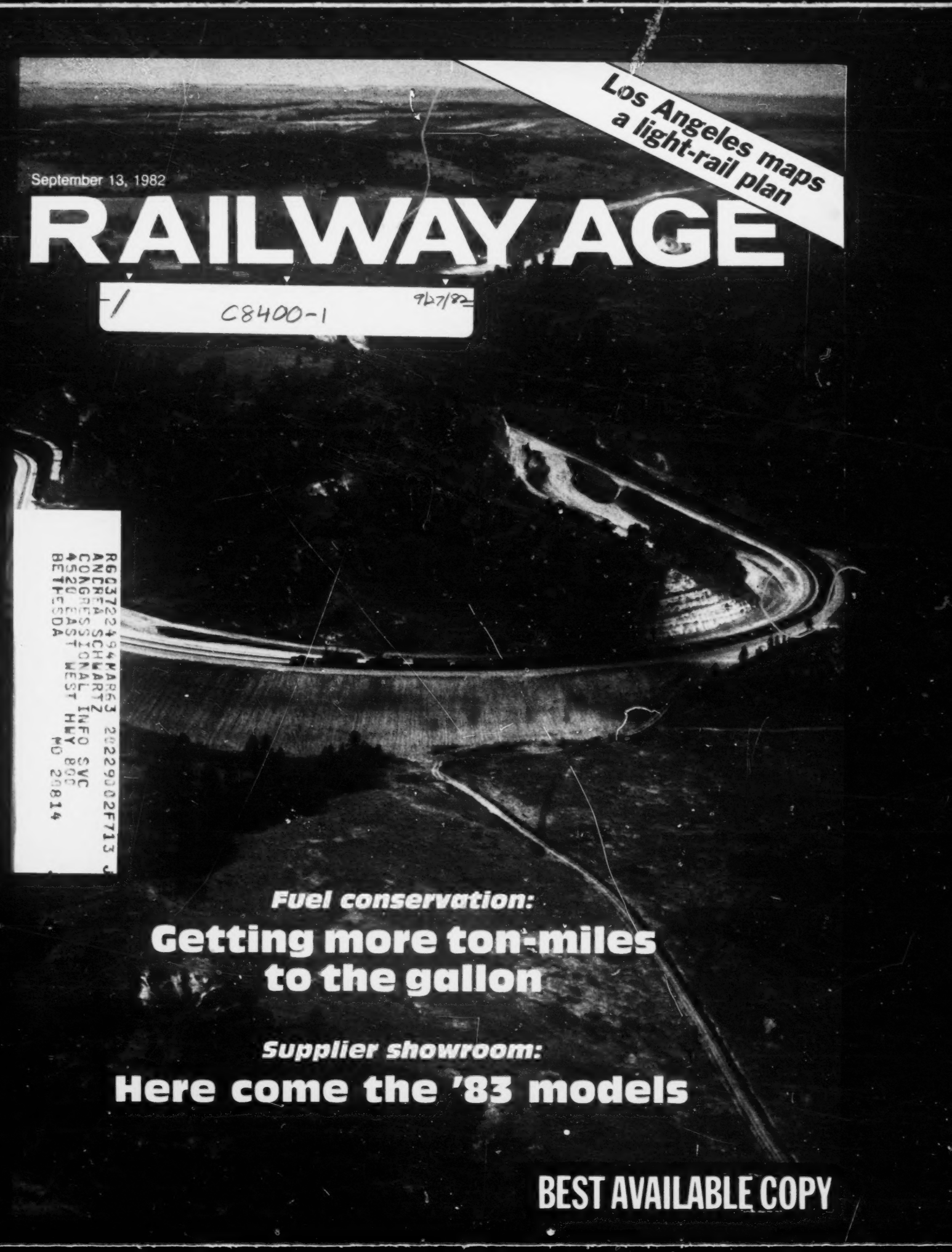

September 13, 1982

RAILWAY AGE

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R&D 37224 94 PAR63 20229002F713 J
ANCRFA SCHWARTZ
CONGRESSIONAL INFO SVC
4520 EAST WEST HWY 800
BETHESDA MD 20814

Fuel conservation:

Getting more ton-miles to the gallon

Supplier showroom:

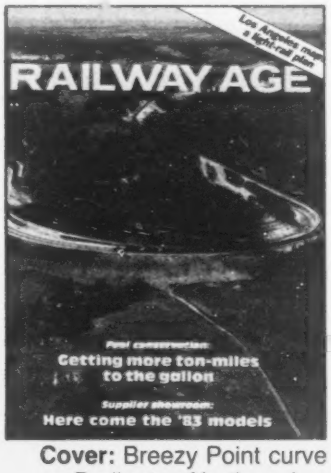
Here come the '83 models

BEST AVAILABLE COPY

RAILWAY AGE

September 13, 1982

FEATURES



Cover: Breezy Point curve on Burlington Northern 's Belmont line change in Nebraska was photographed by Pat Stafford. *Page 23*

23 Getting more ton-miles to the gallon
For North American railroads, a 1% reduction in fuel use can save $50 million a year—an incentive that has led to a far-ranging, industry-wide conservation effort.

31 Supplier showroom: Here come the '83 models
Poor business conditions have not stopped the builders from innovating. A special exhibit in print gives a sampling of what they've been working on.

56 Coal: The story behind the headlines
Does U.S. coal have a long-term future? The press says it does—and the press also says it doesn't. Here's what CSX's Hays T. Watkins has to say.

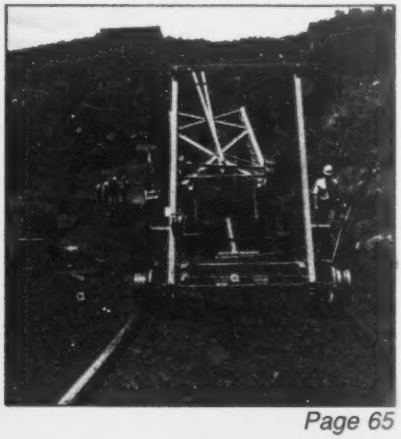
61 Can aluminizing prolong car life?
Portec's research and development department is testing out aluminum coatings for steel cars—and so far the results indicate some worthwhile savings.

65 Jackson Jordan: Back on track, thanks to R&D
New, efficient track machines keep coming off of the drawing boards and computer screens—and the company says it has regained leadership in its field.

72 Los Angeles: Putting rail transit back on the map
Plans for a 22.5-mile, $195-million light rail line between Los Angeles and Long Beach, using former Pacific Electric Railway track, are moving forward.

78 GSI Engineering: A proud past, a promising future
After 75 years (and 200,000 trucks) GSI Engineering—now teamed up with Buckeye—says it's prepared to design a truck for just about any rail vehicle.

83 How to use the R&D tax credit
An expert describes how railroads, transit agencies, and suppliers can save millions of dollars a year through use of a provision of the 1981 Tax Act.



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Market

CARLOADINGS

Loadings of revenue freight in the week ended Aug. 21 totaled 363,587 cars, according to the Association of American Railroads. This was a decrease of 74,748 cars, or 17.1%, compared with the corresponding week last year. Ton-miles generated by carloadings in the week ended Aug. 21 are estimated at 15.3 billion, a decrease of 13.3% below the corresponding week of 1981.

REVENUE FREIGHT CARLOADINGS

Commodity	Aug. 21 week	Aug. 14 week
Grain	24,409	24,721
Other farm products	3,168	3,039
Metallic ores	14,079	13,974
Coal	116,956	114,296
Crushed stone, gravel & sand	10,738	9,653
Nonmetallic minerals	8,926	8,924
Grain mill products	12,698	11,659
Food & kindred products	13,272	12,701
Primary forest products	14,396	14,900
Lumber & wood products (except furniture)	6,140	5,922
Pulp, paper & allied products	15,766	15,673
Chemicals & allied products	21,113	21,555
Petroleum products	5,131	4,962
Stone, clay & glass products	10,518	10,000
Coke	4,072	4,290
Metals & products	7,732	7,077
Motor vehicles & equipment	12,373	10,340
Waste & scrap materials	7,408	7,393
Forwarder & shipper assn. traffic	8,581	8,328
All other carloads	45,943	43,962
LCL traffic	168	204
Total Cars Loaded	**363,587**	**353,573**
Cumulative total,	1982	1981
34 weeks	**12,438,006**	**14,154,712**
Estimated revenue ton-miles (billions), 34 weeks	**533.1**	**596.0**

PIGGYBACK LOADINGS

U.S. piggyback loadings for the week ended Aug. 14 totaled 37,138 cars (9.4% above the corresponding 1981 week) and 65,465 trailers or containers (up 7.3% from 1981). Cumulative volume for the first 33 weeks of 1982 is 1,180,993 cars (up 8.9% from 1981) and 2,084,313 trailers or containers (up 6.7% from 1981).

CANADIAN CARLOADINGS

Canadian railway revenue freight loaded in the seven-day period ended Aug. 7 totaled 3.2 million tonnes (down 18.8% from 1981). Cars loaded totaled 49,081 (down 15.1% from 1981). Cumulative loadings for 1982 were 127.8 million tonnes (down 8.3% from 1981).

• *Bay Area Rapid Transit District.*—A $6.9 million contract has been awarded to the Fiber Science Division (FSD) of EDO Corp. for the supply of 9,000 fiberglass-reinforced fireproof liners to be used in the refurbishing of 450 BART cars. TODCO of Buffalo, N.Y., is the prime contractor.

• *Chicago Regional Transportation Authority.*—Was awarded a $299,000 research and demonstration grant to develop an improved bill validator for Commuter Fare Automation Systems. All but $40,000 will come from the Urban Mass Transportation Administration.

• *Family Lines.*—Will build a $6-million regional intermodal facility at Nashville, Tenn. The new facility will occupy an 82-acre site on the west side of Radnor Yard. It will have two 5,000-ft tracks, a gantry crane, and parking space for more than 700 trailers and containers. A modular design will permit expansion for anticipated intermodal growth.

• *Toronto Transit Commission.*—Awarded a $10.8-million contract to Ellis-Don Limited for construction of the 4.35-mile Scarborough RT elevated structure (excluding stations).

• *Freight cars and locomotives.*—The following report has been received from the AAR and the ARCI:

DELIVERED

	July 1982	July 1981	June 1982	Seven months 1982	Seven months 1981
Built new by carbuilders	1,369	2,864	1,244	11,981	28,060
Build new in RR shops	0	119	95	986	2,299
Built new—total	1,369	2,983	1,339	12,967	30,359
Rebuilt	12	47	142	802	698
TOTAL DELIVERED	**1,381**	**3,030**	**1,481**	**13,769**	**31,057**
Locomotives (new and rebuilt)	16	32	54	297	465

ORDERED

To be built new by carbuilders	179	1,315	586	4,844	11,533
To be built new in RR shops	0	0	0	0	253
To be built new—total	179	1,315	586	4,844	11,786
To be rebuilt	0	0	0	0	1,100
TOTAL ORDERED	**179**	**1,315**	**586**	**4,844**	**12,886**

ON ORDER AND UNDELIVERED

	August 1 1982	August 1 1981	July 1 1982	Average Backlog 1982	Average Backlog 1981
To be built new by carbuilders	6,507	23,809	7,820	9,927	35,121
To be built new in RR shops	680	2,458	680	976	3,202
To be built new—total	7,187	26,267	8,500	10,903	38,323
To be rebuilt	98	402	110	402	313
TOTAL ON ORDER	**7,285***	**26,669**	**8,610**	**11,305**	**38,636**
Locomotives (new and rebuilt)	137	306	144	184	362

*Due to revisions and cancellations of some orders, the Aug. 1, 1982, backlog has been reduced by 123 cars.